



NAVY and MARINE CORPS SAFETY COUNCIL

Second Flag Panel Meeting
21 September 2004



RADM Dick Brooks, USN
Commander, Naval Safety Center



Agenda

- 0830-0835 Welcoming Remarks DASN(S) Ms. Connie DeWitte
- 0835-0900 Introduction/Overview RADM Brooks, NSC
- 0900-0940 Committee Updates
- 0940-1025 Guest Speaker Ms. Deborah Grubbe, DuPont
Corporate Director - Safety and
Health 1025-1040 BREAK
- 1040-1050 Fleet Initiatives 2nd MAW Mentoring Program
- 1050-1110 DON Safety Strategy DASN(S) Ms. Connie DeWitte
Update
- 1110-1135 SECNAV Comments and Q&A
- 1135-1155 High-Level Issues/Discussion
- 1155-1200 Closing Remarks RADM Brooks



Navy and Marine Corps Safety

Council

COMPOSITION:

- Afloat Safety
- Aviation Safety
- Shore Safety
- Ground Tactical Safety

OBJECTIVES:

- ☒ Develop Charter
- ☐ Complete POA&Ms
- ☐ Strategic Plan

WORK IN PROGRESS

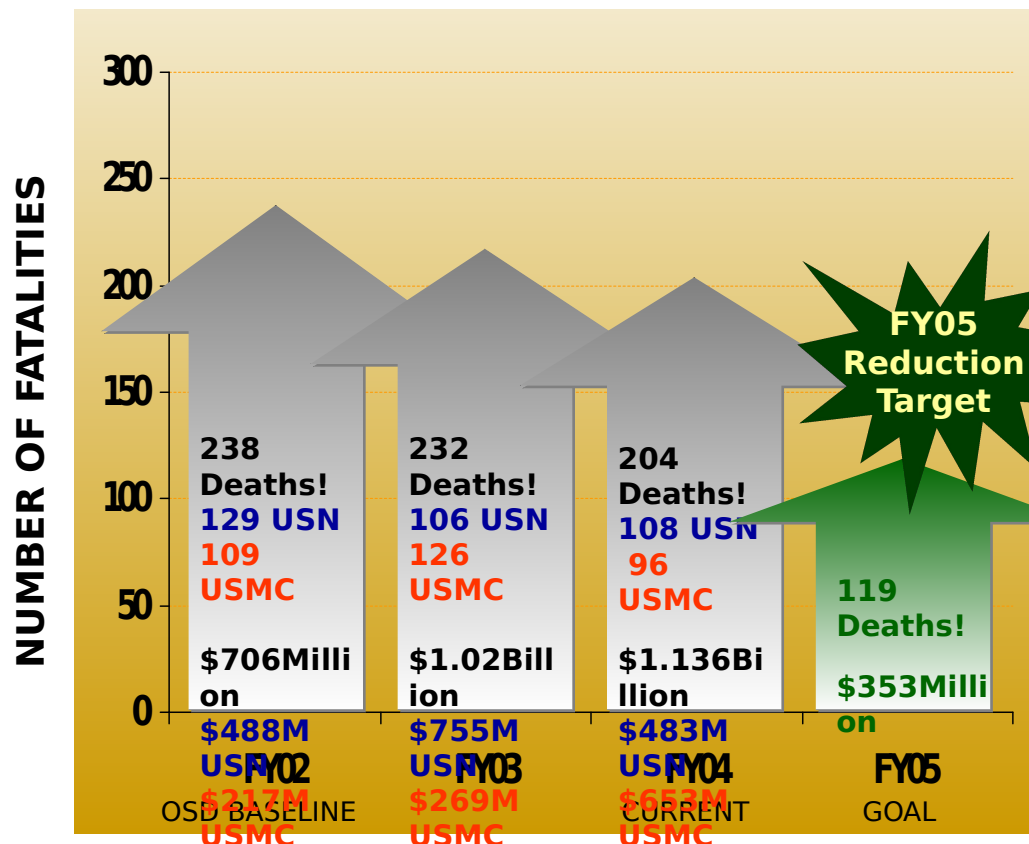
FY2003	FY2004			FY2005
16 DEC 2003	JAN-FEB 2004	17 MAR 2004	21 SEP 2004	SEP 2005
Working Group Meeting	Committee Meetings	First Flag Panel Meeting Washington, DC	Second Flag Panel Meeting Quantico, VA	50% Reduction Deadline
<ul style="list-style-type: none"> • Action items • Takeaways 		<ul style="list-style-type: none"> • Summary of Council Meetings and Actions • NSC/SD report to CNO/CMC/DASN(S) as appropriate 	<ul style="list-style-type: none"> • Decisions/Commitment • Products/Decisions/Funding • Strategic Plan 	
ACTION ITEMS		BRIEF FLAGS	BRIEF CNO/CMC/DASN(S)	DECISIONS





Where We Are

USN/USMC FATALITIES AND RESOURCES LOST FY02-04



In FY04, naval aviation mishap cost has exceeded \$1B. There has been no other fiscal or calendar year (FY81+) which has cost \$1B+ through the end of the year.

Mishap cost includes all class A and B E/FR/AG mishaps.

Date	Mishap Cost (\$Millions):	This FY-To Date	Last FY-To
	Class A FM		
1,008.62		784.01	
Class B FM		10.62	
10.99		Class A FRM	
0.00		0.00	
Class B FRM		1.22	
0.00		Class A AGM	
38.37		64.94	
Class B AGM		3.47	
2.66			

We are headed toward 213 deaths in FY04 - (113 USN & 100 USMC)

Our FY05 50% mishap reduction goal is 119. OUR ENDSTATE GOAL IS ZERO



PMV Fatality Rates

Top Causal Factors

WHEN

Nighttime Driving
Use
Weekends
Speed

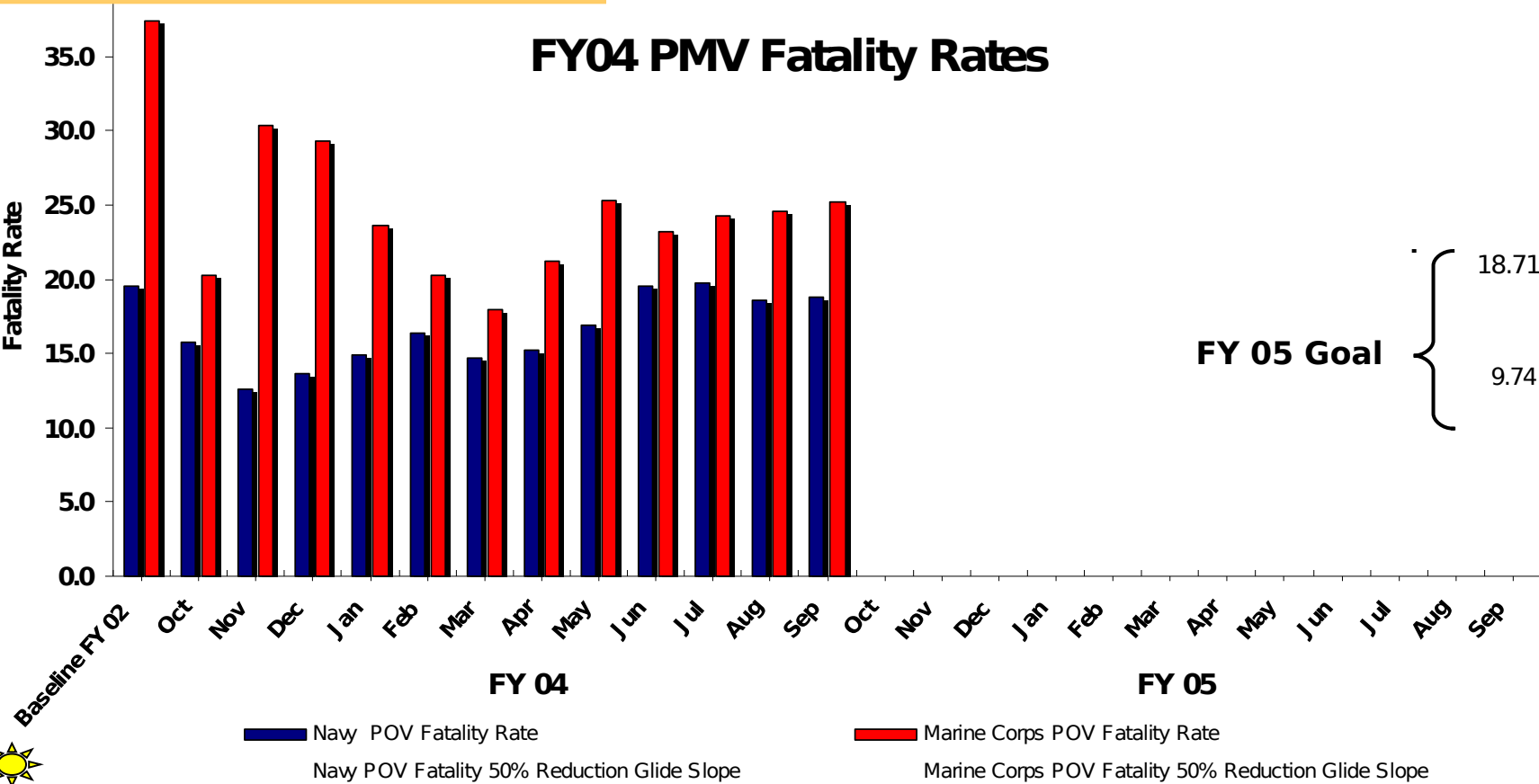
WHY

No Seat Belt
Excessive
Alcohol
Fatigue



USN/USMC Losses	
USN	USMC
69 Fatalities	43 Fatalities
\$10.3 Million	\$5.9 Million

(includes cost of fatality IAW DOD 6055 and DOD property loss)





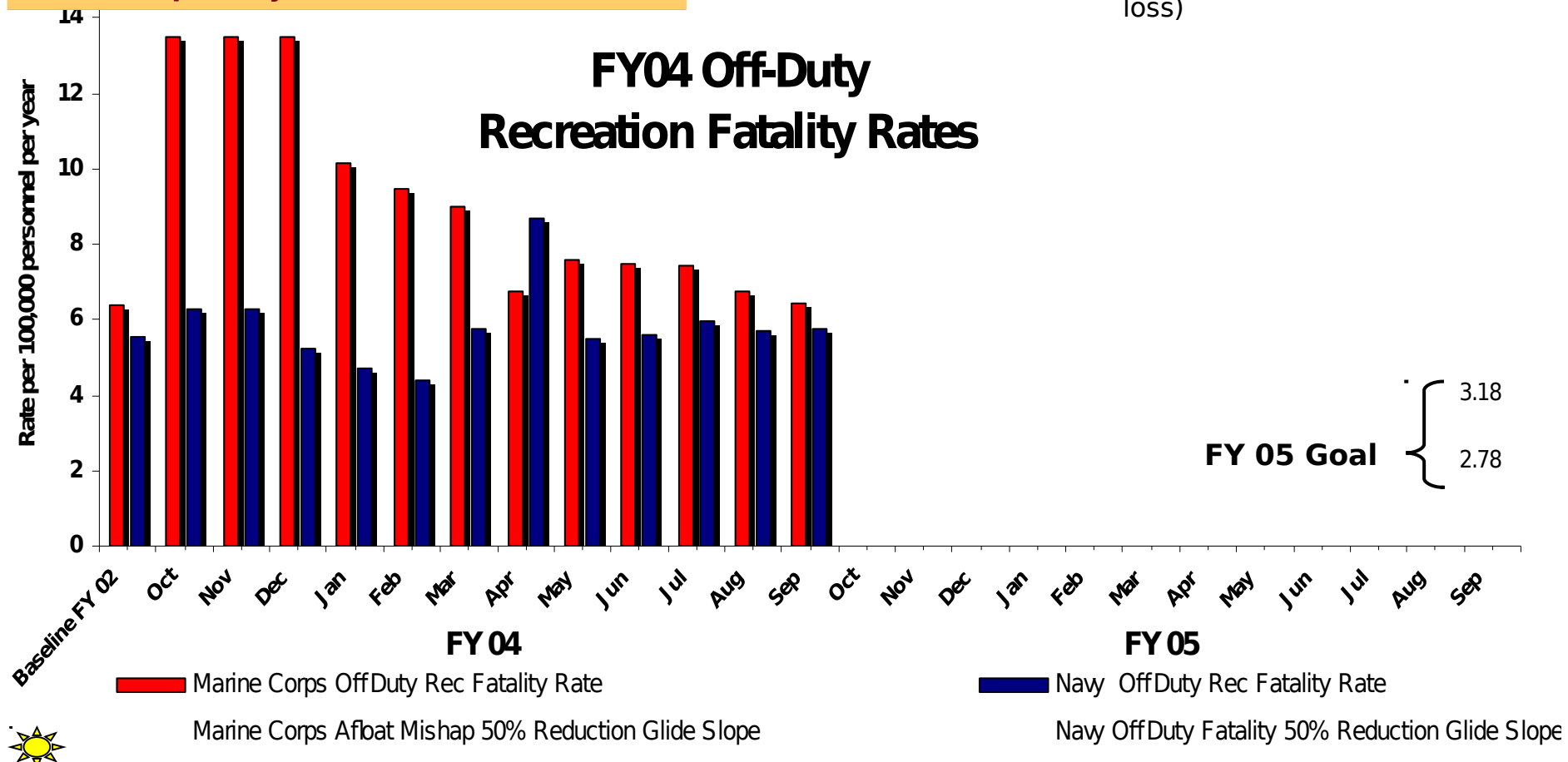
Recreation/Off-Duty Fatality Rates

Leading Causes of Deaths & Injuries

- Drowning
- Falls
- Outdoor Recreation
- Team and Outdoor Sports
- Water Sports (jet skis, motorboat)

USN/USMC Losses	
USN	USMC
21 Fatalities	11 Fatalities
\$2.9 Million	\$2.4 Million

(includes cost of fatality IAW DOD 6055 and DOD property loss) ☀

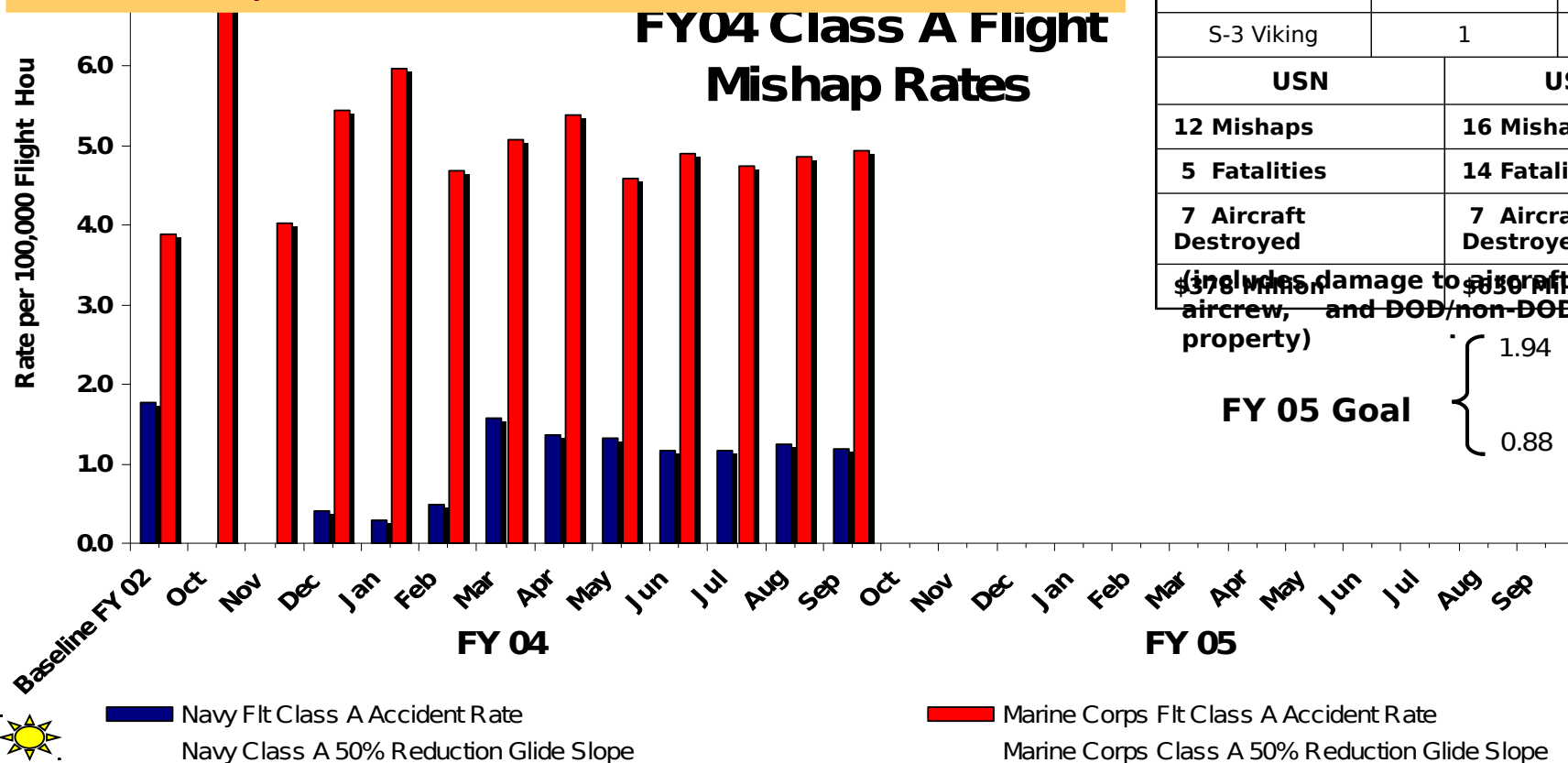




Class-A Flight Mishap Rate

Leading Causal Factors

- **Human Error (89%)**
 - Aircrew (breakdown in Crew Resource Management, poor decision making, failure to properly perform emergency procedures)
 - Supervisory (failure to provide adequate guidance and training)
- **Material/Systems Malfunction (11%)**
 - Material/component catastrophic failure (no human error involved)



Mishaps	USN	USMC
F/A -18 Hornet	7	8
AH-1W Cobra	0	3
T-45 Goshawk	2	0
AV-8B Harrier	0	2
UH-1 Huey	0	2
CH-53D/E	0	2
CH-46 Sea Knight	0	1
F-14 Tomcat	1	0
SH-60 Seahawk	1	0
UC-35	0	1
S-3 Viking	1	0
USN		USMC
12 Mishaps		16 Mishaps
5 Fatalities		14 Fatalities
7 Aircraft Destroyed		7 Aircraft Destroyed
(includes damage to aircraft, aircrew, and DOD/non-DOD property)		\$378 Million

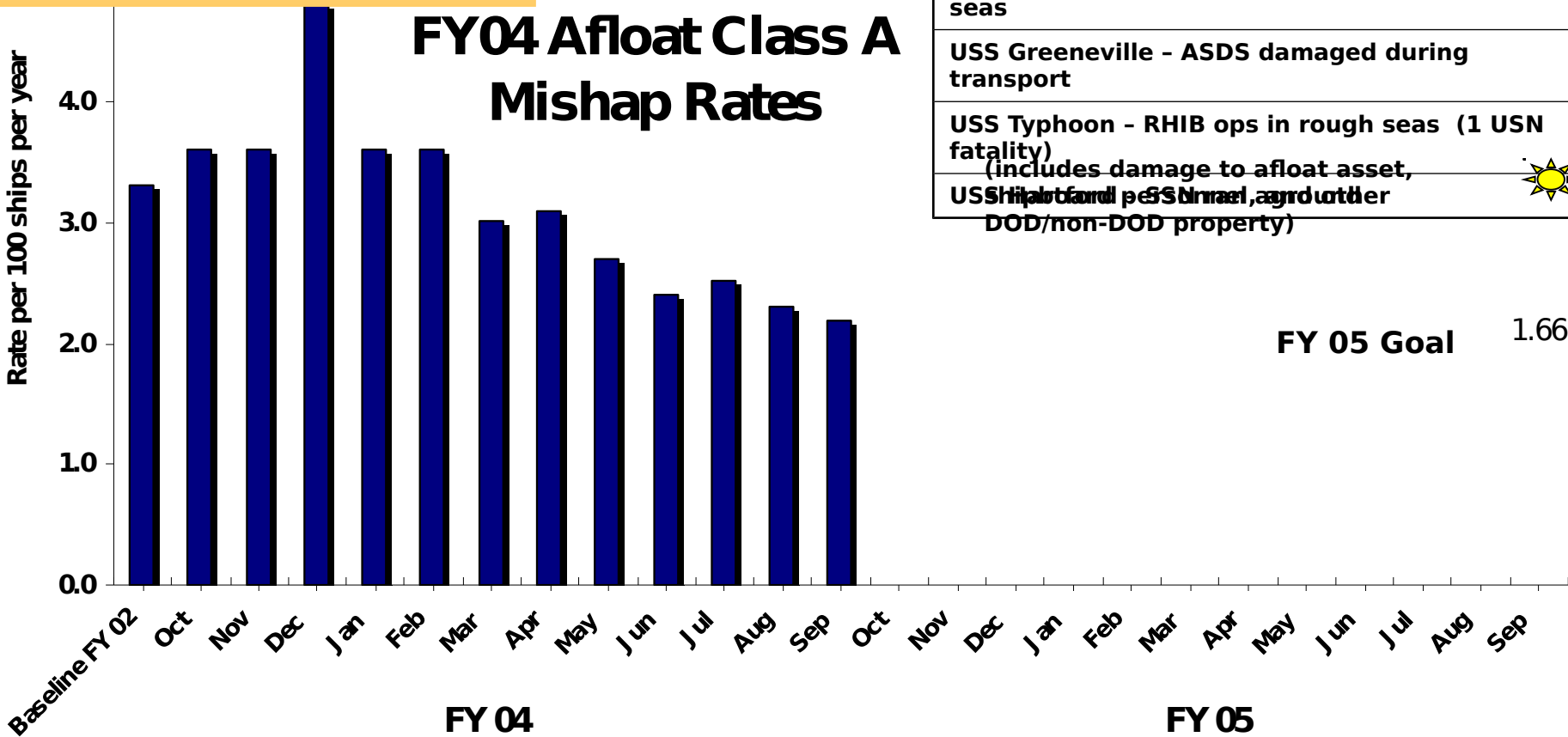




Afloat Class-A Mishap Rates

Top 5 Causal Factors

- Inadequate Supervision
- PMS not accomplished
- Poor Crew Resource Management
- Lack of Situational Awareness
- Complacency

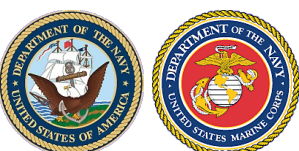


USN Losses
7 Mishaps at a cost of \$14 Million
USS John F Kennedy - collision with Dhow
USS John F Kennedy - H2S leak (1 USN fatality)
ACU 5 - M1A1 tank slid off LCAC (1 USMC fatality)
ACU 4 - LCAC damaged in well deck during heavy seas
USS Greeneville - ASDS damaged during transport
USS Typhoon - RHIB ops in rough seas (1 USN fatality)
(includes damage to afloat asset, shipboard personnel, and other DOD/non-DOD property)



Afloat Class A Mishap Rate

Afloat Mishap 50% Reduction Glide Slope



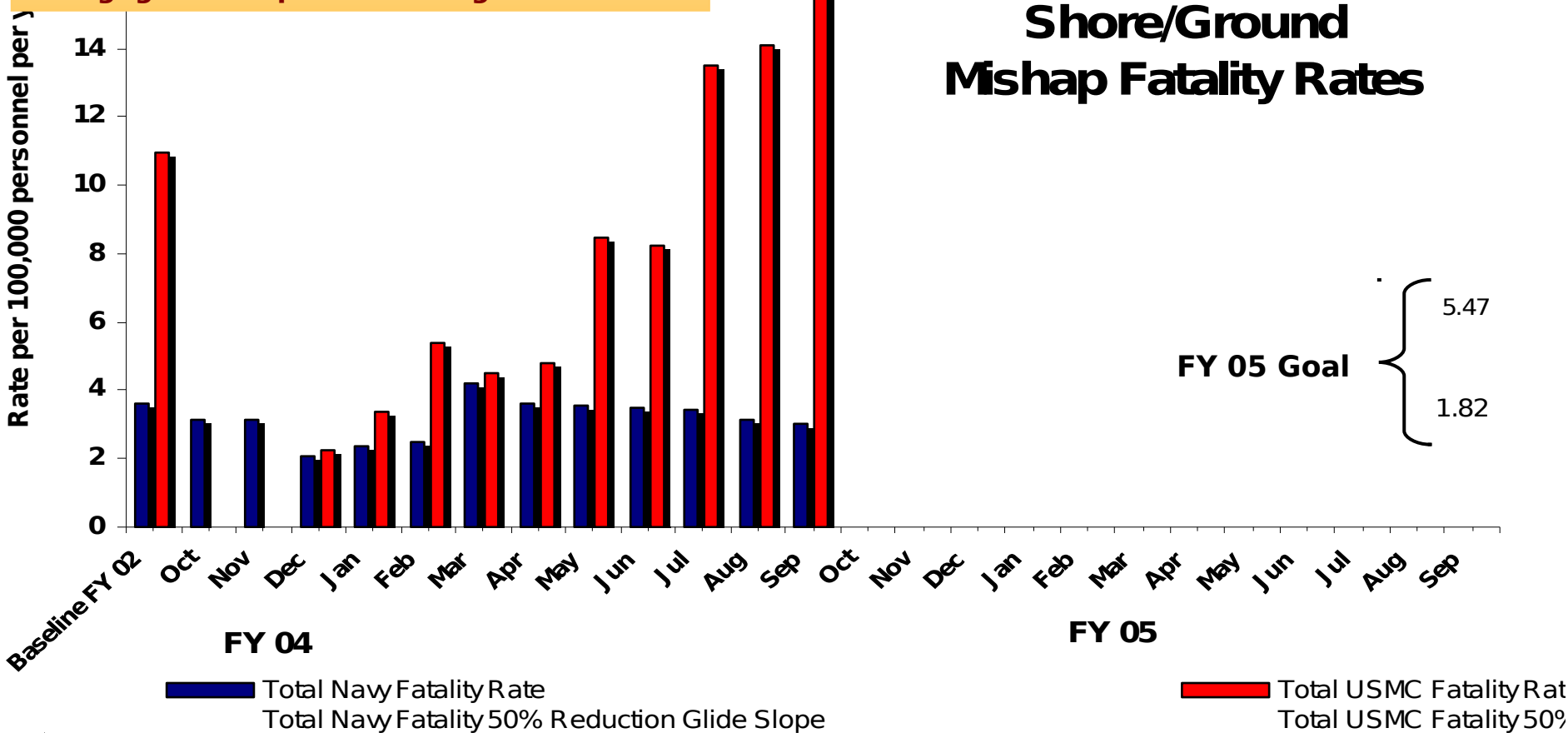
Operational Shore/Ground Fatality Rates

Leading Causes of Deaths

- Tactical Vehicles
- GMV Mishaps
- Industrial Mishaps (electrocutions, burns, falls)
- PRT
- Negligent Weapons Discharge

USN/USMC Losses	
USN	USMC
18 Fatalities	42 Fatalities
\$464.5 Million	\$641 Million

Shore/Ground Mishap Fatality Rates



Note: Does not include casualties due to enemy action



Safety Council Initiatives

FLEETWIDE INITIATIVES

***Defense Safety Oversight
Committee**

**Navy and Marine Corps Safety
Council
Operational Risk Management**

**Data Centric Technology -
MFOOA
Safety Strategic Plan**

***Human Factors Analysis**

CNET 5 Vector Model

Navy Knowledge Online

Culture Workshops

Command Safety Assessment

**Maintenance Climate Assessment
Survey**

NSC PROGRAMS

**Mishap Investigations
Surveys**

Web-Enabled Safety System (WESS)

50% Mishap Reduction Media Kits

Naval Safety Campaign Plan

***ASCAS**

ORM Assessment (ORMAS)

Media Campaign: Video/Print/Broadcast

Critical Days of Summer Campaign

Good Samaritan Program

***First Flag Notification**

**NHTSA/Drive Smart VA/USAA/Click It or
Ticket/Harley Davidson**

***BG/ESG/MEU Reports**

USMC SD PROGRAMS

***ORM and Fundamentals Campaign**

Aviation Task Force

Education Initiative for Safety

Professionals

**Safety Intern Program (with Army Safety
Center)**

***BST Mishap Reduction Initiative**



NMCSC/DSOC Funding Roll-Up

	Required	Funded	Unfunded	Priority	Required	Funded	Unfunded	Unfunded
USN CSA/MCAS/ASCAS	0.499	0.423	0.076	1	0.486	0.000	0.486	0.562
USMC CRM/CAS/MCAS (HQMC(SD))	0.180	0.180	0.000		0.180	0.000	0.180	0.180
USMC Traffic Safety (HQMC(SD))	3.500	0.000	3.500	2	3.500	0.000	3.500	7.000
USN On-Site Safety Surveys (FSA)	0.714	0.114	0.600	3	0.784	0.309	0.475	1.075
USMC On-Site Safety Surveys (HQMC(SD))	0.030	0.030	0.000		0.030	0.030	0.000	0.000
USN Culture Workshops	0.075	0.075	0.000		0.104	0.075	0.029	0.029
USMC Culture Workshops (HQMC(SD))	0.025	0.012	0.013	4	0.033	0.012	0.021	0.034
Tactical OSH Specialists (HQMC(SD))								
- USMC Intern Training	1.000	0.000	1.000	5	1.000	0.000	1.000	2.000
- USMC Tactical Training	0.200	0.000	0.200		0.200	0.000	0.200	0.400
USN Traffic Safety and Rods (CNI-N46)	5.410	5.000	0.410	6	5.410	5.410	0.000	0.410
USMC ORM (HQMC(SD))	0.050	0.000	0.050	7	0.050	0.000	0.050	0.100
TOTAL for Funding Priority Items			5.849				5.941	11.790
Safety Management System (ESAMS)	2.400	2.400	0.000		2.400	2.400	0.000	0.000
Military Flight Operations Quality Assurance	6.200	6.200	0.000		9.800	9.800	0.000	
USN Federal Lost Workday Rates	3.000	3.000	0.000		3.000	3.000	0.000	0.000
USMC Federal Lost Workday Rates	0.500	0.000	0.500		0.500	0.000	0.500	1.000
OTHER DSOC INITIATIVES								
Voluntary Protection Program (VPP)	0.630	0.000	0.630		TBD	TBD		0.630
USN Airborne Ankle Braces	0.032	0.000	0.032		0.032	0.000	0.032	0.064
USMC Airborne Ankle Braces	0.036	0.000	0.036		0.036	0.000	0.036	0.072
USN Reemploy Injured Employees	1.900	0.000	1.900		1.900	0.000	1.900	3.800
USMC Reemploy Injured Employees	1.300	0.000	1.300		1.300	0.000	1.300	2.600
TOTAL Funding - Other Items			3.898				3.268	7.166



Navy-Wide Challenges

There is still lots to be done!



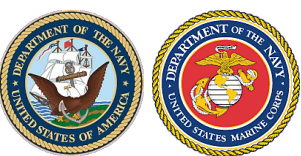


Discussion Issues

- Prioritization and Funding of Safety Initiatives
 - On Time Funds
 - Programs on “Life Support” → Formalize funding
- Accountability – Aircraft/Ship mishap vs. PMV/Off-Duty
- Intrusive Leadership – How do we stop off-duty mishaps?
- Defense Safety Oversight Council



QUESTIONS ?

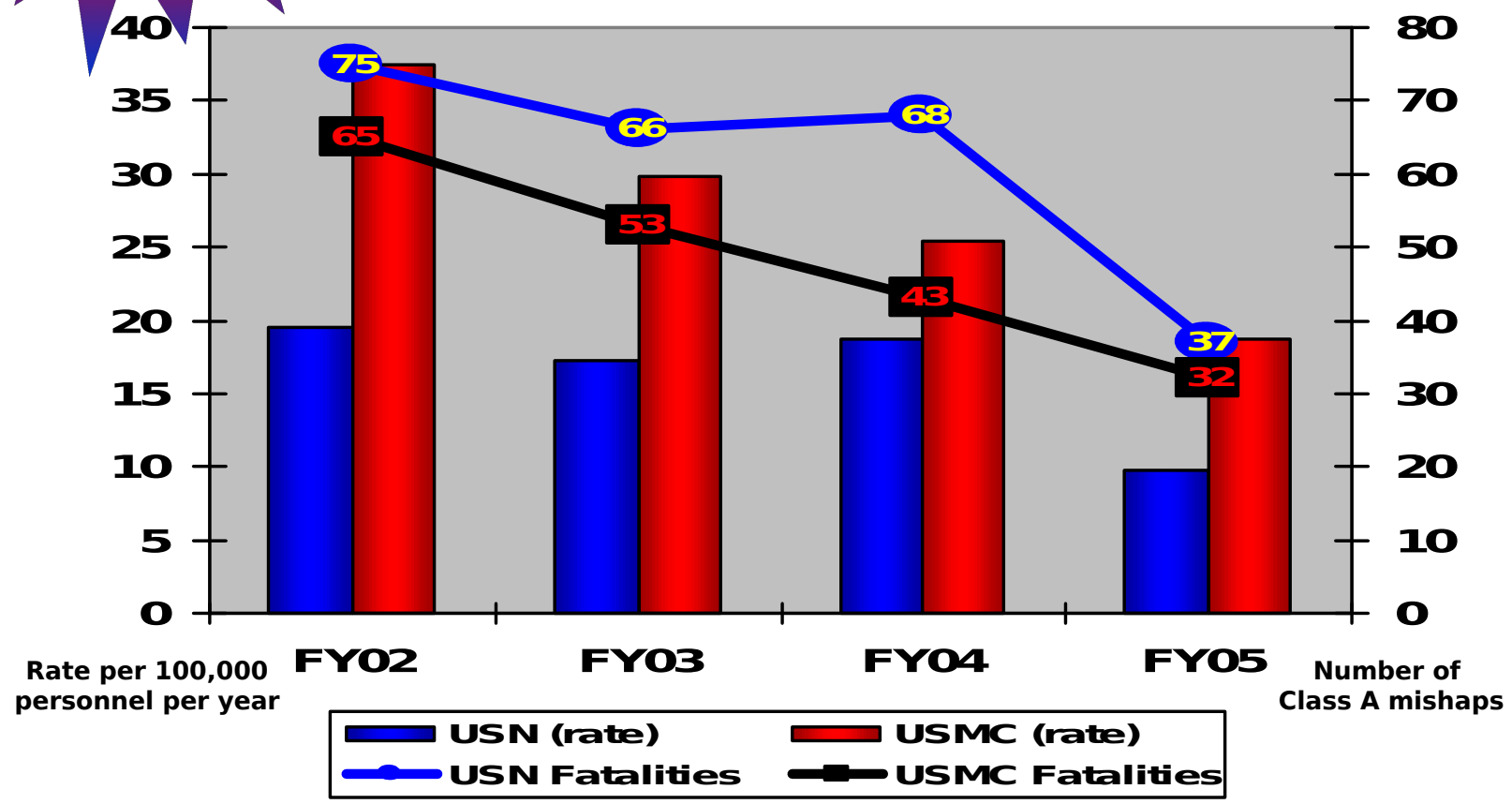


PMV Fatality Rates & Class A's

#1 Killer of Sailors & Marines

MISHAP AND FATALITY TRENDS

	FY04	FY05	FY05 Goals
US	3.75	3.82	9.74
USMC	2.9	5.54	18.70
PMV (Off-Duty)			



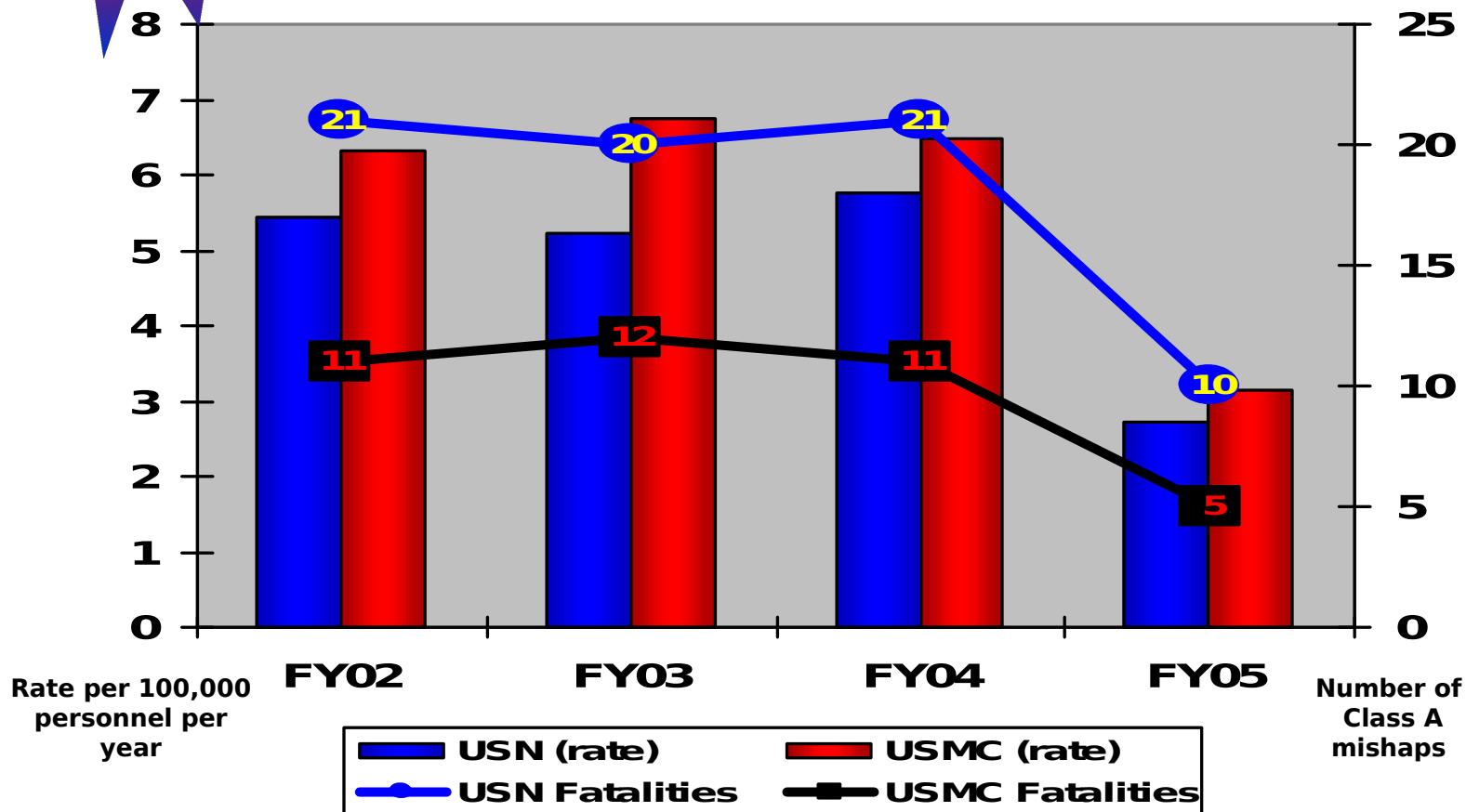


Off-Duty Recreation Fatality Rates & Class A's

#2 Killer of Sailors & Marines

MISHAP AND FATALITY TRENDS

	FY04		FY05		FY05 Goals	
	US	USMC	US	USMC	US	USMC
REC (Off-Duty)	1.59	1.65	3.01	3.3	2.72	3.16





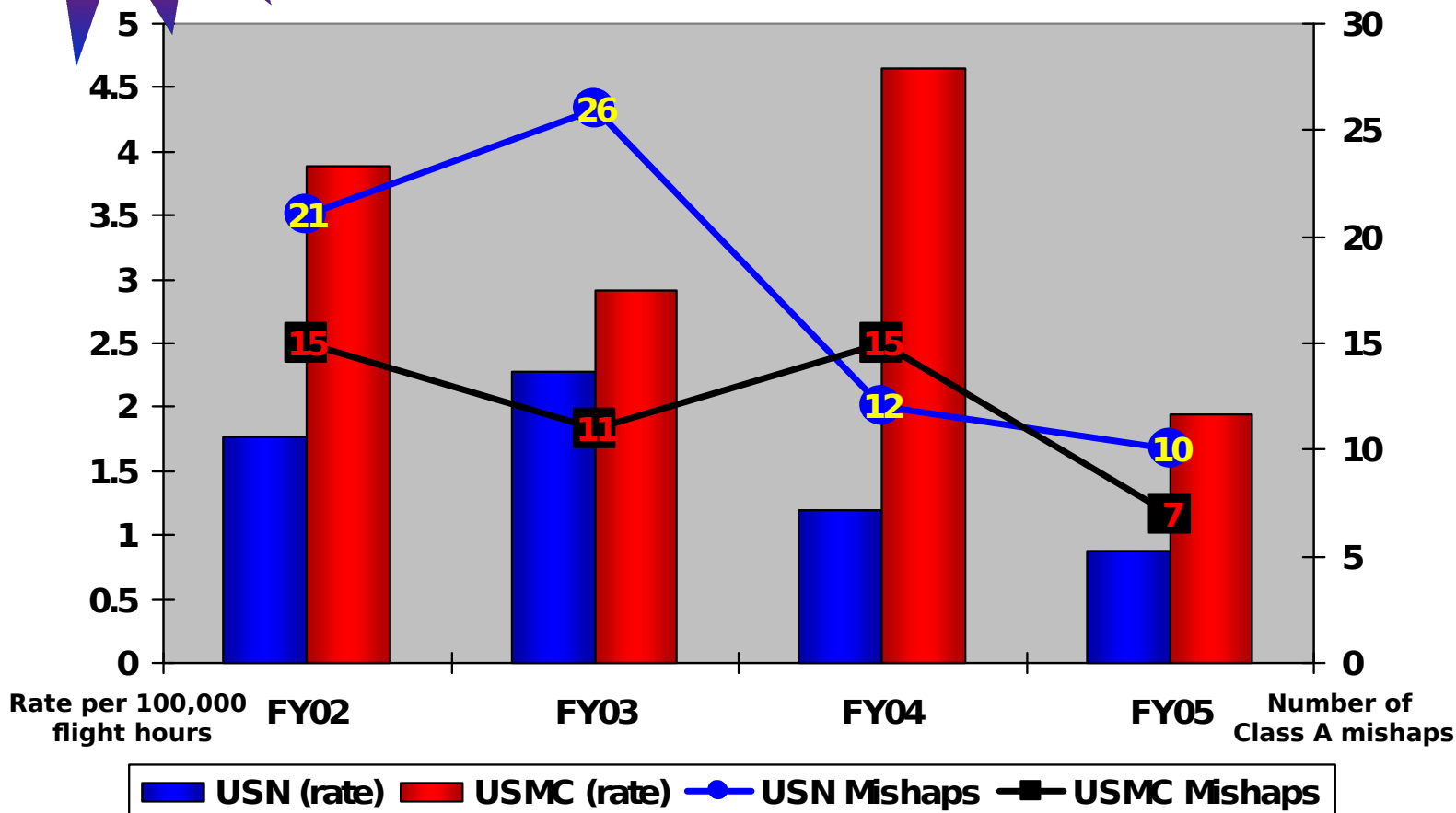
Aviation Mishap Rates & Class A's

Most Expensive!

MISHAP AND FATALITY

TRENDS

	FY04		FY05		FY05 Goals	
	US	USMC	US	USMC	US	USMC
Aviation	.15	1.98	.31	2.99	.88	1.94





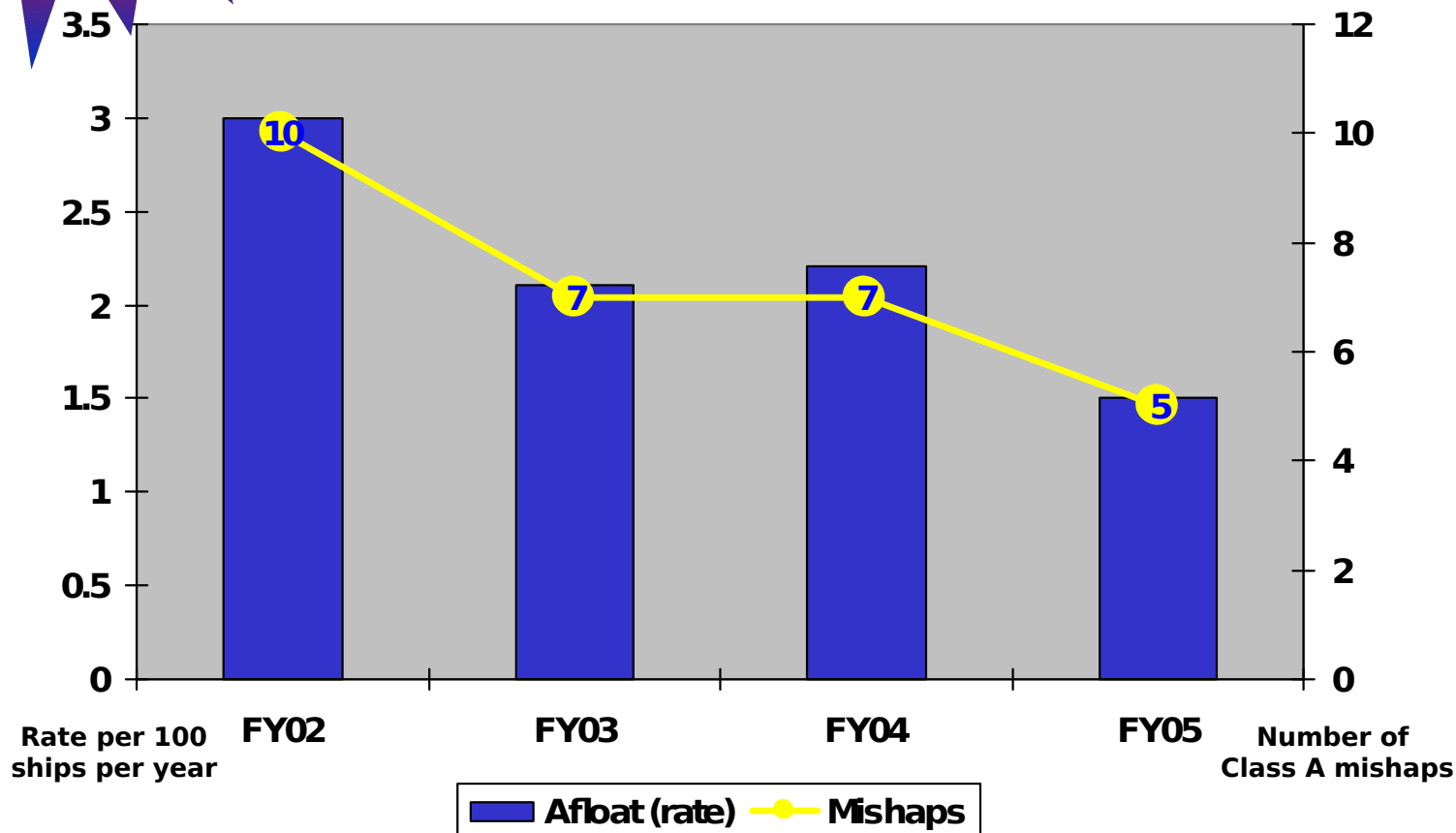
Afloat Class A Mishap Rates & Class A's

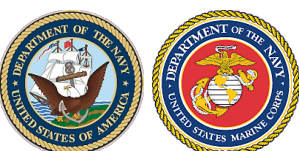
**On track
towards goal!**

MISHAP AND FATALITY

TRENDS

	FY0		TRENDS		FY05 Goals	
	US	USMC	US	USMC	US	USMC
Afloat	<div><div></div><div>.08</div><div></div></div>	<div><div></div><div>N/A</div><div></div></div>	<div><div></div><div>.7</div><div></div></div>	<div><div></div><div>N/A</div><div></div></div>	<div><div></div><div>1.50</div><div></div></div>	<div><div></div><div>N/A</div><div></div></div>

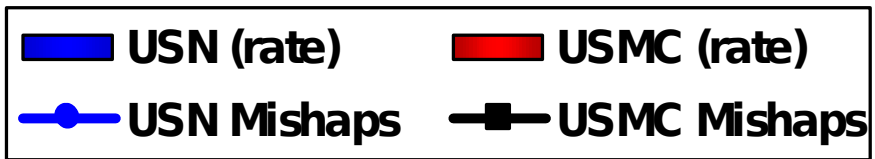
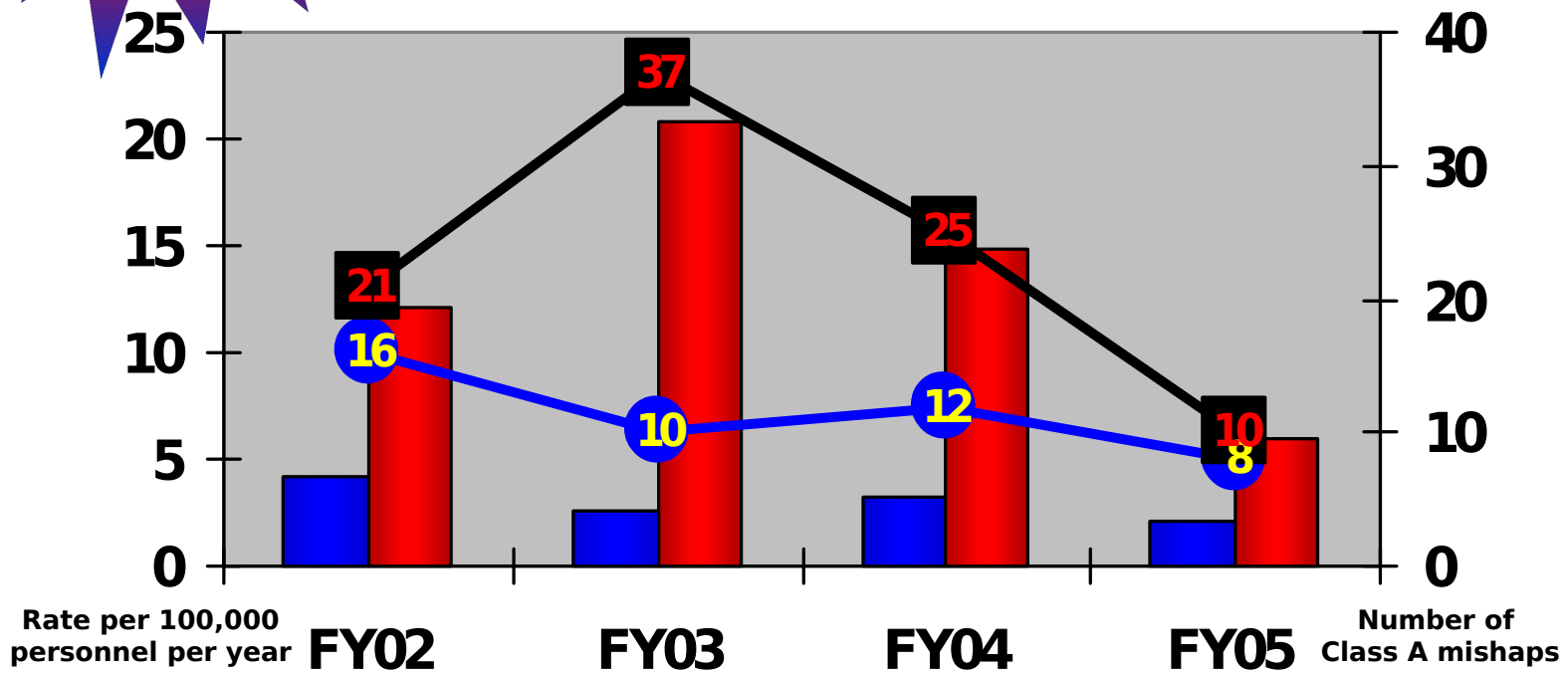




Operational Shore/Ground Mishap Rates & Class A's

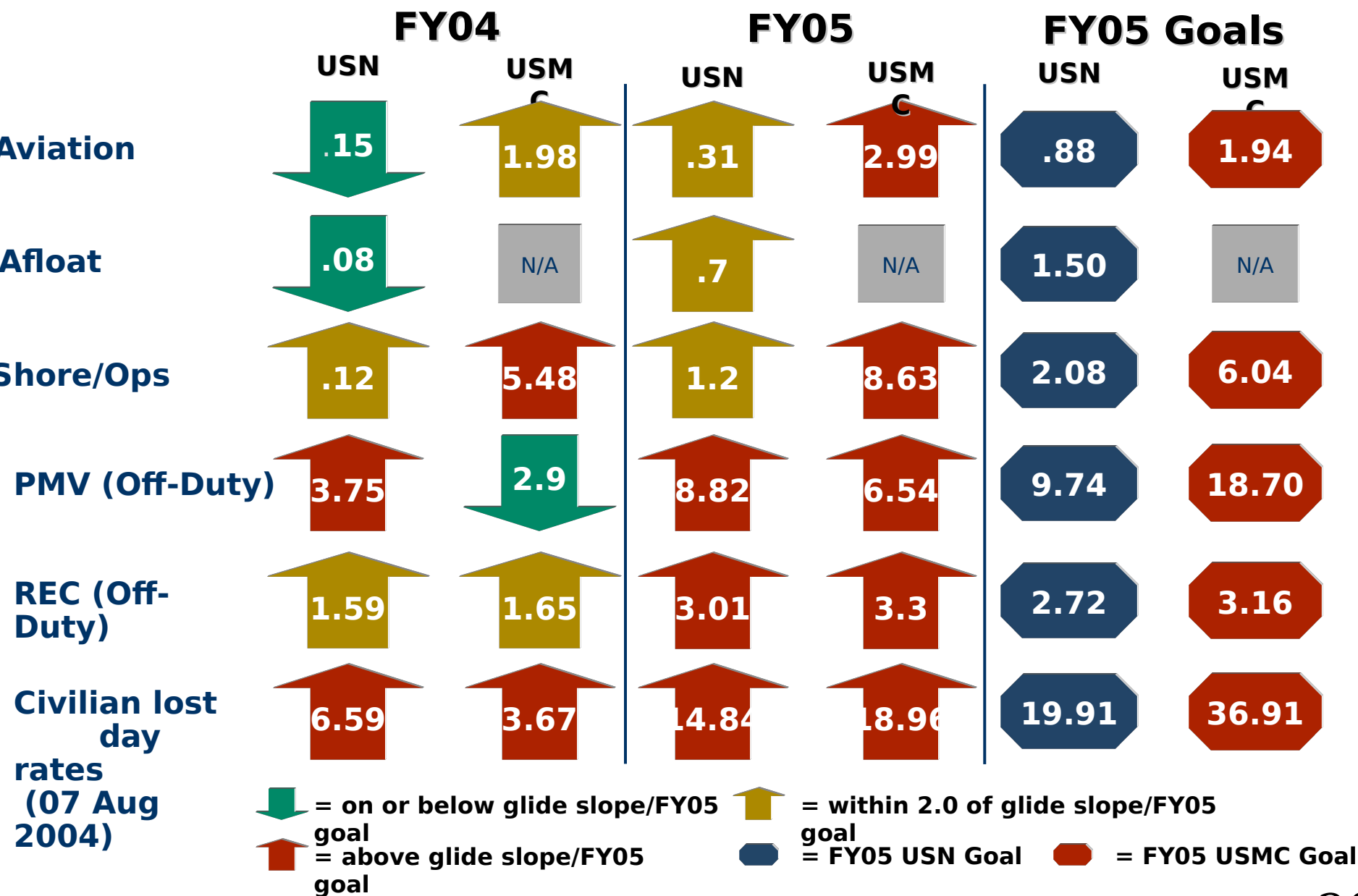
Area of concern...

MISHAP AND FATALITY TRENDS					
FY04		FY05		FY05 Goals	
US	USMC	US	USMC	US	USMC
Shore/Ops	4				
.12	5.48	1.2	3.63	2.08	6.04





Mishap and Fatality Trends

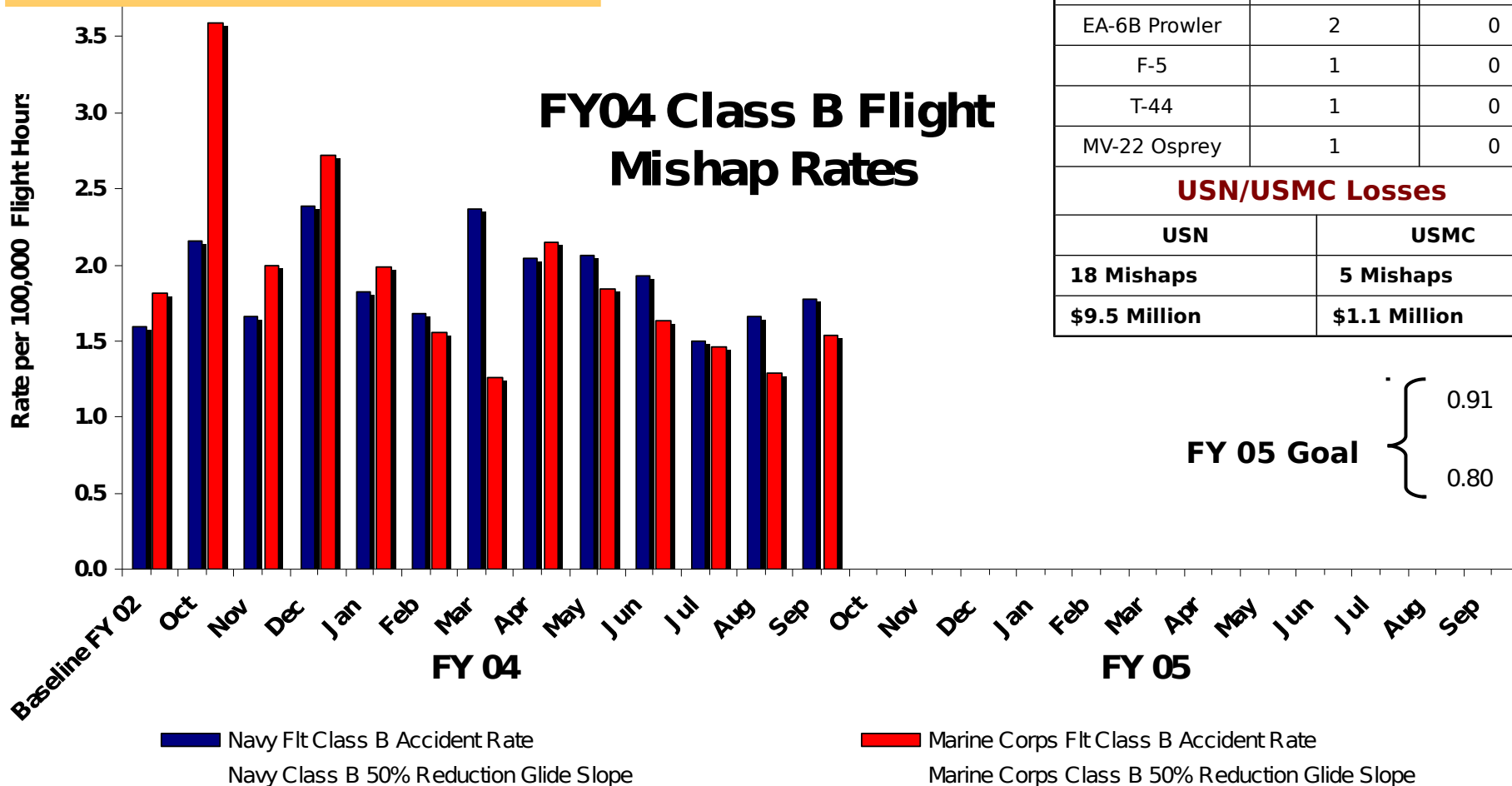




Class-B Flight Mishap Rate

Top Causal Factors

- Human Error
- Material Malfunction
- Aircrew Factor
- Supervisory Personnel
- Maintenance Personnel





DON 50% Mishap Reduction Progress

USN/USMC Losses	
USN	USMC
55,885 Lost Days	7,413 Lost Days
\$19.6 Million	\$2.6 Million

